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Scientific and Technical Information Center

### SEARCH REQUEST FORM

Requester's Full Name: MARK BERCH Examiner #: 59193 Date: 6/27/05  
Art Unit: 1624 Phone Number: 2- 0663 Serial Number: 10648408  
Location (Bldg/Room#): 5C01 (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK  
\*\*\*\*\*

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: \_\_\_\_\_

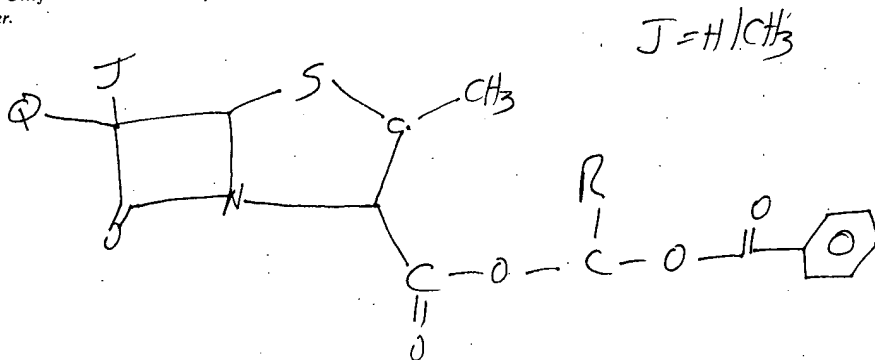
Inventors (please provide full names): \_\_\_\_\_

Earliest Priority Date: \_\_\_\_\_

**Search Topic:**

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

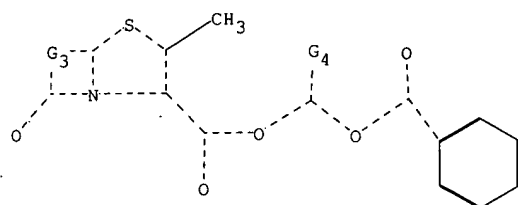
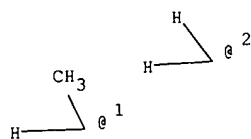
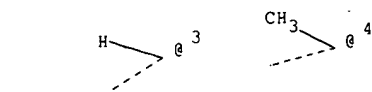
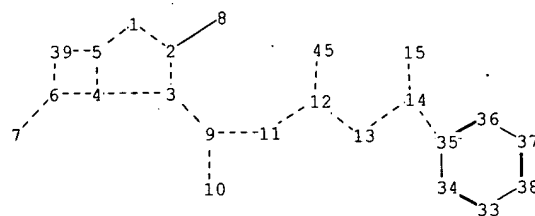
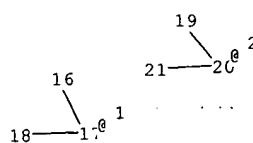
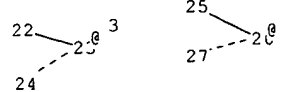


$R = H \text{ or } C_{1-4} \text{ alkyl}$

$Q = H/C/N$

If more than 10 bibs, <sup>limit to</sup> ~~reset~~  $Q = H/C$

"L8"

Ak<sup>5</sup>41<sup>5</sup>

chain nodes :

7 8 9 10 11 12 13 14 15 16 18 19 21 22 25 41 45

ring nodes :

1 2 3 4 5 6 17 20 23 26 33 34 35 36 37 38 39

ring/chain nodes :

24 27

chain bonds :

2-8 3-9 6-7 9-10 9-11 11-12 12-13 12-45 13-14 14-15 14-35 16-17 17-18 19-20  
20-21 22-23 23-24 25-26 26-27

ring bonds :

1-2 1-5 2-3 3-4 4-5 4-6 5-39 6-39 33-34 33-38 34-35 35-36 36-37 37-38

exact/norm bonds :

1-2 1-5 2-3 2-8 3-4 3-9 4-5 4-6 5-39 6-7 6-39 9-10 9-11 11-12 12-13 12-45  
13-14 14-15 14-35 16-17 17-18 19-20 20-21 22-23 23-24 25-26 26-27

normalized bonds :

33-34 33-38 34-35 35-36 36-37 37-38

G3:[\*1],[\*2],[\*3],[\*4]

G4:H,[\*5]

Connectivity :

6:3 E exact RC ring/chain 7:1 E exact RC ring/chain 9:3 E exact RC ring/chain  
10:1 E exact RC ring/chain 14:3 E exact RC ring/chain 15:1 E exact RC ring/chain

Match level :

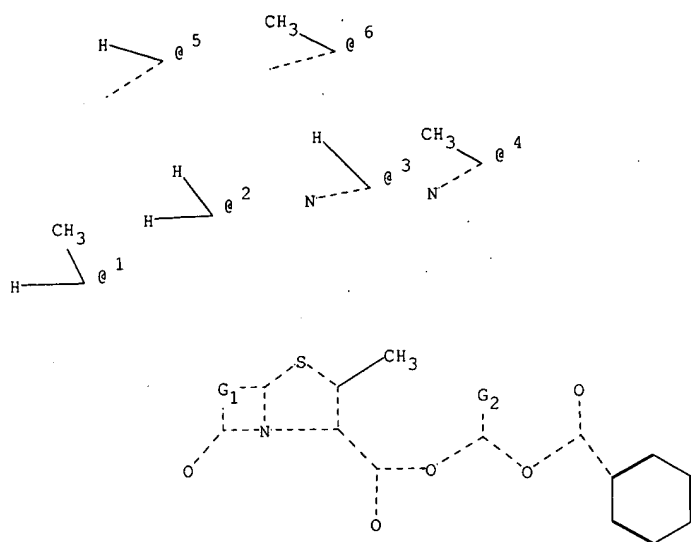
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS  
11:CLASS

12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:CLASS 19:CLASS  
20:Atom 21:CLASS 22:CLASS 23:Atom 24:CLASS 25:CLASS 26:Atom 27:CLASS 33:Atom  
34:Atom 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:Atom 41:CLASS 45:CLASS

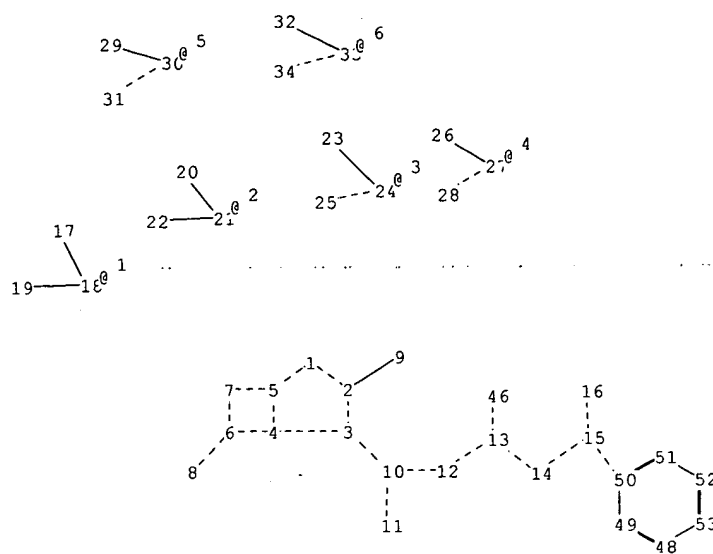
Element Count :

Node 41: Limited

C,C1-4



Ak<sup>7</sup>



41<sup>7</sup>

chain nodes :

8 9 10 11 12 13 14 15 16 17 19 20 22 23 26 29 32 41 46

ring nodes :

1 2 3 4 5 6 7 18 21 24 27 30 33 48 49 50 51 52 53

ring/chain nodes :

25 28 31 34

chain bonds :

2-9 3-10 6-8 10-11 10-12 12-13 13-14 13-46 14-15 15-16 15-50 17-18 18-19  
20-21 21-22 23-24 24-25 26-27 27-28 29-30 30-31 32-33 33-34

ring bonds :

1-2 1-5 2-3 3-4 4-5 4-6 5-7 6-7 48-49 48-53 49-50 50-51 51-52 52-53

exact/norm bonds :

1-2 1-5 2-3 2-9 3-4 3-10 4-5 4-6 5-7 6-7 6-8 10-11 10-12 12-13 13-14 13-46  
14-15 15-16 15-50 17-18 18-19 20-21 21-22 23-24 24-25 26-27 27-28 29-30 30-31  
32-33 33-34

normalized bonds :

48-49 48-53 49-50 50-51 51-52 52-53

G1: [\*1], [\*2], [\*3], [\*4], [\*5], [\*6]

G2: H, [\*7]

Connectivity :

6:3 E exact RC ring/chain 8:1 E exact RC ring/chain 10:3 E exact RC ring/chain  
11:1 E exact RC ring/chain 15:3 E exact RC ring/chain 16:1 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:CLASS 9:CLASS 10:CLASS  
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:CLASS  
20:CLASS 21:Atom 22:CLASS 23:CLASS 24:Atom 25:CLASS 26:CLASS 27:Atom 28:CLASS  
29:CLASS 30:Atom 31:CLASS 32:CLASS 33:Atom 34:CLASS 41:CLASS 46:CLASS 48:Atom  
49:Atom 50:CLASS 51:CLASS 52:CLASS 53:CLASS

Generic attributes :

41:

Number of Carbon Atoms : less than 7

Element Count :

Node 41: Limited

C,C1-4

| Ref # | Hits | Search Query  | DBs                | Default Operator | Plurals | Time Stamp       |
|-------|------|---|--------------------|------------------|---------|------------------|
| L1    | 394  | (514/195 or 540/310).ccls.  | US-PGPUB;<br>USPAT | OR               | OFF     | 2005/07/20 07:55 |
| L2    | 17   | ("20050004093" "3719668" "3862181" "3864331" "3931405" "3957764" "4287181" "4397783" "4406887" "4428935" "4432970" "4521533" "4540689" "5373018" "5374648" "5374649" "5401868").<br>PN. | US-PGPUB;<br>USPAT | OR               | OFF     | 2005/07/20 07:55 |